

NON-PUBLIC?: N
ACCESSION #: 9112270212
LICENSEE EVENT REPORT (LER)

FACILITY NAME: Maine Yankee Atomic Power Company PAGE: 1 OF 2

DOCKET NUMBER: 05000309

TITLE: Plant trip due to Condensate Pump Motor Failure
EVENT DATE: 11/22/91 LER #: 91-012-00 REPORT DATE: 12/20/91

OTHER FACILITIES INVOLVED: Maine Yankee DOCKET NO: 05000309

OPERATING MODE: 7 POWER LEVEL: 100

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR
SECTION:
50.73(a)(2)(iv)

LICENSEE CONTACT FOR THIS LER:
NAME: Jerrold B. Maben, Nuclear Safety TELEPHONE: (207) 882-6321
Engineer

COMPONENT FAILURE DESCRIPTION:
CAUSE: X SYSTEM: SD COMPONENT: MO MANUFACTURER: A180
REPORTABLE NPRDS: Yes

SUPPLEMENTAL REPORT EXPECTED: No

ABSTRACT:

A reactor trip from 100% power occurred on November 22, 1991 at 0957 due to the failure of a condensate pump motor (P-27B). Internal motor lead arcing caused a drop in voltage on the bus. The condensate pump motor breaker tripped on overcurrent. The transient resulted in a trip of the steam turbine driven feedwater pump. This action tripped the main turbine. The reactor protective system tripped the reactor on loss of load.

All safety systems performed as expected.

This LER is similar to number 91-010, however, the cause of the LER 91-010 motor failure is not identical to this LER.

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END OF ABSTRACT

TEXT PAGE 2 OF 2

A reactor trip from 100% power occurred on November 22, 1991 at 0957 due to the failure of a condensate pump motor (P-276). Internal motor lead arcing caused the condensate pump motor breaker to trip on overcurrent. The 4160 volt distribution bus connected to P-27B experienced a coincident temporary voltage drop. The low voltage caused a trip of the steam turbine driven feedwater pump, by reducing the control circuitry voltage. This action tripped the main turbine. The reactor protective system tripped the reactor on loss of load. Several non-nuclear safety auxiliaries tripped due to the low voltage condition and were subsequently restarted. All safety systems performed as expected.

This LER is similar to number 91-010, however, the cause of the LER 91-010 motor failure is not identical to this LER.

Post trip review determined that internal motor leads had failed at a crimped connection on P-27B (as opposed to external motor lead box connections on P-27C in LER 91-010). No root cause has been determined but further investigation is ongoing. The P-27B motor had a major overhaul in 1989 and had been refurbished in August of 1991. After the failure of P-27C on October 5, 1991, the P-27B junction box and leads exterior to the motor were inspected.

Two of three condensate pumps are required for full power operation. The parallel pump at the time of the trip was P-27C. Maine Yankee electrical maintenance completed checks on P-27C before restart. A third condensate pump motor (P-27A) was offsite for repair at the time of this motor failure.

The P-27B motor has been sent offsite for a major overhaul to include rewinding.

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ATTACHMENT 1 TO 9112270212 PAGE 1 OF 1

Maine Yankee
RELIABLE ELECTRICITY FOR MAINE SINCE 1972

EDISON DRIVE o AUGUSTA, MAINE 04330 o (207) 622-4868

December 20, 1991
MN-91-175 SEN-91-355

UNITED STATES NUCLEAR REGULATORY COMMISSION
Attention: Document Control Desk
Washington, DC 20555

Reference: (a) License No. DPR-36 (Docket No. 50-309)

Subject: Maine Yankee Licensee Event Report 91-012-00 - Plant Trip
Due to Condensate Pump Motor Failure

Gentlemen:

Please find enclosed Maine Yankee Licensee Event Report 91-012-00.
This report is submitted in accordance with the requirements of 10 CFR
50.73(a)(2)(iv).

Please contact us should you have any questions regarding this
matter.

Very truly yours,

S. E. Nichols, Manager
Licensing & Engineering Support Department

JVW/sjj

Enclosure

c: Mr. Thomas T. Martin
Mr. Charles S. Marschall
Mr. E. H. Trottier
Mr. Patrick J. Dostie

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